



FORM PTO/AIA 149/A (modified PTO/SB/08)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/789,051

ATTY. DOCKET NO.: C1039.70083US06

FILING DATE: February 26, 2004

CONFIRMATION NO.: 8295

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Oluwatosin A. Ogunbiyi

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U.S. PATENT DOCUMENTS

Examiner's Initials ^a	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/00/		5,023,243		Tullis	06-11-1991
		5,087,617		Smith	02-11-1992
		5,248,670		Draper et al.	09-28-1993
		5,457,189		Crooke et al.	10-10-1995
		5,514,577		Draper et al.	05-07-1996
		5,567,604		Rando et al.	10-22-1996
		5,576,302		Cook et al.	11-19-1996
		5,594,122		Friesen	01-14-1997
		5,728,518		Carmichael	03-17-1998
		5,756,097		Landucci et al.	05-26-1998
		5,877,309		McKay et al.	03-02-1999
		5,955,059		Gilchrest et al.	09-21-1999
		6,184,369	B1	Rando et al.	02-06-2001
		6,221,882		Macfarlane	04-24-2001
		6,339,630		Macfarlane	06-04-2002
		6,426,334	B1	Agrawal et al.	07-30-2002
		6,479,504		Macfarlane et al.	11-12-2002
		6,521,637		Macfarlane	02-18-2003
		6,727,230	B1	Hutcherson et al.	04-27-2004
		6,737,066	B1	Moss	05-18-2004
		6,821,957	B1	Krieg et al.	11-23-2004
		6,835,395	B1	Semple et al.	12-28-2004
		6,943,240		Bauer et al.	09-13-2005
		6,949,520		Hartmann et al.	09-27-2005
		6,951,845		Carson et al.	10-04-2005
		7,001,890		Wagner et al.	02-26-2006
		2002-0086839	A1	Raz et al.	07-04-2002
		2002-0091097	A1	Bratzler et al.	07-11-2002
		2002-0142977	A1	Raz et al.	10-03-2002
		2002-0164341	A1	Davis et al.	11-07-2002
		2003-0026801	A1	Weiner et al.	02-06-2003

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2003-0027782	A1	Carson et al.	02-06-2003
2003-0050261	A1	Krieg et al.	03-13-2003
2003-0050268	A1	Krieg et al.	03-13-2003
2003-0091599	A1	Davis et al.	05-15-2003
2003-0100527	A1	Krieg et al.	05-29-2003
2003-0139364	A1	Krieg et al.	07-24-2003
2003-0148316	A1	Lipford et al.	08-07-2003
2003-0148976	A1	Krieg et al.	08-07-2003
2003-0181406	A1	Schetter et al.	09-25-2003
2003-0191079	A1	Krieg et al.	10-09-2003
2003-0203861	A1	Carson et al.	10-30-2003
2003-0212026	A1	Krieg et al.	11-13-2003
2003-0224010	A1	Davis et al.	12-04-2003
2003-0232074	A1	Lipford et al.	12-18-2003
2003-0232780	A1	Carson et al.	12-18-2003
2003-0232856	A1	Macfarlane	12-18-2003
2004-0006010	A1	Carson et al.	01-08-2004
2004-0006034	A1	Raz et al.	01-08-2004
2004-0009942	A1	Van Nest et al.	01-15-2004
2004-0009949	A1	Krieg	01-15-2004
2004-0030118	A1	Wagner et al.	02-12-2004
2004-0053880	A1	Krieg	03-18-2004
2004-0067902	A9	Bratzler et al.	04-08-2004
2004-0067905	A1	Krieg	04-08-2004
2004-0087534	A1	Krieg et al.	05-06-2004
2004-0087538	A1	Krieg et al.	05-06-2004
2004-0092468	A1	Schwartz et al.	05-13-2004
2004-0092472	A1	Krieg	05-13-2004
2004-0105872	A1	Klinman et al.	06-03-2004
2004-0106568	A1	Krieg et al.	06-03-2004
2004-0115219	A1	Ahn et al.	06-17-2004
2004-0131628	A1	Bratzler et al.	07-08-2004
2004-0132685	A1	Krieg et al.	07-08-2004
2004-0142469	A1	Krieg et al.	07-22-2004
2004-0143112	A1	Krieg et al.	07-22-2004
2004-0147468	A1	Krieg et al.	07-29-2004
2004-0152649	A1	Krieg	08-05-2004

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				GROUP ART UNIT: 1645		EXAMINER: Oluwatosin A. Ogunbiyi	
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/00/		2004-0152656	A1	Krieg et al.	08-05-2004
		2004-0152657	A1	Krieg et al.	08-05-2004
		2004-0162258	A1	Krieg et al.	08-19-2004
		2004-0162262	A1	Krieg et al.	08-19-2004
		2004-0167089	A1	Krieg et al.	08-26-2004
		2004-0171150	A1	Krieg et al.	09-02-2004
		2004-0171571	A1	Krieg et al.	09-02-2004
		2004-0181045	A1	Krieg et al.	09-16-2004
		2004-0198680	A1	Krieg	10-07-2004
		2004-0198688	A1	Krieg et al.	10-07-2004
		2004-0229835	A1	Krieg et al.	11-18-2004
		2004-0234512	A1	Wagner et al.	11-25-2004
		2004-0235770	A1	Davis et al.	11-25-2004
		2004-0235774	A1	Bratzler et al.	11-25-2004
		2004-0235777	A1	Wagner et al.	11-25-2004
		2004-0235778	A1	Wagner et al.	11-25-2004
		2004-0247662	A1	Dow et al.	12-09-2004
		2004-0266719	A1	McCluskie et al.	12-30-2004
		2005-0004061	A1	Krieg et al.	01-06-2005
		2005-0004062	A1	Krieg et al.	01-06-2005
		2005-0009774	A1	Krieg et al.	01-13-2005
		2005-0013812	A1	Dow et al.	01-20-2005
		2005-0031638	A1	Dalemans et al.	02-10-2005
		2005-0032734	A1	Davis et al.	02-10-2005
		2005-0032736	A1	Krieg et al.	02-10-2005
		2005-0037403	A1	Krieg et al.	02-17-2005
		2005-0037985	A1	Krieg et al.	02-17-2005
		2005-0043529	A1	Davis et al.	02-24-2005
		2005-0049215	A1	Krieg et al.	03-03-2005
		2005-0049216	A1	Krieg et al.	03-03-2005
		2005-0054601	A1	Wagner et al.	03-10-2005
		2005-0054602	A1	Krieg et al.	03-10-2005
		2005-0059619	A1	Krieg et al.	03-17-2005
		2005-0059625	A1	Krieg et al.	03-17-2005
		2005-0059626	A1	Van Nest et al.	03-17-2005
		2005-0064401	A1	Olek et al.	03-24-2005
		2005-0070491	A1	Krieg et al.	03-31-2005

EXAMINER: /Oluwatosin Ogunbiyi/	DATE CONSIDERED: 03/12/2007
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100/		2005-0075302	A1	Hutcherson et al.	04-07-2005
		2005-0100983	A1	Bauer et al.	05-12-2005
		2005-0101554	A1	Krieg et al.	05-12-2005
		2005-0101557	A1	Krieg et al.	05-12-2005
		2005-0119273	A1	Lipford et al.	06-02-2005
		2005-0123523	A1	Krieg et al.	06-09-2005
		2005-0130911	A1	Uhlmann et al.	06-16-2005
		2005-0148537	A1	Krieg et al.	07-07-2005
		2005-0159375	A1	Srivastava et al.	07-21-2005
		2005-0169888	A1	Hartman et al.	08-04-2005
		2005-0171047	A1	Krieg et al.	08-04-2005
		2005-0181422	A1	Bauer et al.	08-18-2005
		2005-0182017	A1	Krieg	08-18-2005
		2005-0197314	A1	Krieg et al.	09-08-2005
		2005-0215500	A1	Krieg et al.	09-29-2005
		2005-0215501	A1	Lipford et al.	09-29-2005
		2005-0233995	A1	Krieg et al.	10-20-2005
		2005-0233999	A1	Krieg et al.	10-20-2005
		2005-0239732	A1	Krieg et al.	10-27-2005
		2005-0239733	A1	Jurk et al.	10-27-2005
		2005-0239734	A1	Uhlmann et al.	10-27-2005
		2005-0239736	A1	Krieg et al.	10-27-2005
		2005-0245477	A1	Krieg et al.	11-03-2005
		2005-0244379	A1	Krieg et al.	11-03-2005
		2005-0244380	A1	Krieg et al.	11-03-2005
		2005-0250726	A1	Krieg et al.	11-10-2005
		2005-0256073	A1	Lipford et al.	11-17-2005
		2005-0267057	A1	Krieg	12-01-2005
		2005-0267064	A1	Krieg et al.	12-01-2005
		2005-0277604	A1	Krieg et al.	12-15-2005
		2005-0277609	A1	Krieg et al.	12-15-2005
		2006-0003955	A1	Krieg et al.	01-05-2006
		2006-0003962	A1	Ahluwalia et al.	01-05-2006
100/		2006-0019916	A1	Krieg et al.	01-26-2006
100/		2006-0019923	A1	Davis et al.	01-26-2006
100/		2006-0058251	A1	Krieg et al.	03-16-2006
100/		2006-0089326	A1	Krieg et al.	04-27-2006

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/00/		2006-0094683	A1	Krieg et al.	05-04-2006
		2006-0140875	A1	Krieg et al.	06-29-2006
		2006-0154890	A1	Bratzler et al.	07-13-2006
		2006-0172966	A1	Lipford et al.	08-03-2006
		2006-0188913	A1	Krieg et al.	08-24-2006
		2006-0211639	A1	Bratzler et al.	09-21-2006
		2006-0211644	A1	Krieg et al.	09-21-2006
		2006-0229271	A1	Krieg et al.	10-12-2006
		2006-0241076	A1	Uhlmann et al.	10-26-2006
		2006-0246035	A1	Ahluwalia et al.	11-02-2006
		2006-0286070	A1	Hartmann et al.	12-21-2006
		2006-0287263	A1	Davis et al.	12-21-2006
		2007-0009482	A1	Krieg et al.	01-11-2007
		2007-0010470	A1	Krieg et al.	01-11-2007

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
/00/	*	WO	91/12811	A1	ISIS Pharmaceuticals Inc.	09-05-1991	
/00/	*	WO	92/03456		ISIS Pharmaceuticals Inc.	03-05-1992	
/00/	*	WO	94/19945	A1	ISIS Pharmaceuticals Inc.	09-15-1994	
/00/		WO	95/17507	A1	Biagnostik Gesellschaft Für Biomolekulare Diagnostik MBH [DE]	06-29-1995	
/00/		WO	96/02560	A1	University of North Carolina at Chapel Hill	02-01-1996	
/00/	*	WO	98/49288	A1	Hybridon Inc.	11-05-1998	

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
/00/	*	ANITESCU et al., Interleukin-10 functions in vitro and in vivo to inhibit bacterial DNA-induced secretion of interleukin-12. J Interferon Cytokine Res. 1997 Dec;17(12):781-8.	
/00/	*	BALLAS et al., Induction of NK activity in murine and human cells by CpG motifs in oligodeoxynucleotides and bacterial DNA. J Immunol. 1996 Sep 1;157(5):1840-5.	
/00/		BAYEVER et al., Systemic administration of a phosphorothioate oligonucleotide with a sequence complementary to p53 for acute myelogenous leukemia and myelodysplastic syndrome: initial results of a phase I trial. Antisense Res Dev. 1993 Winter;3(4):383-90.	

EXAMINER: /Oluwatosin Ogunbiyi/

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EXAMINER: Oluwatosin A. Ogunbiyi

/OO/		BRANDA et al., Amplification of antibody production by phosphorothioate oligodeoxynucleotides. J Lab Clin Med. 1996 Sep;128(3):329-38.	
		BRAZOLOT MILLAN et al., CpG DNA can induce strong Th1 humoral and cell-mediated immune responses against hepatitis B surface antigen in young mice. Proc Natl Acad Sci U S A. 1998 Dec 22;95(26):15553-8.	
	*	CHACE et al., Bacterial DNA-induced NK cell IFN-gamma production is dependent on macrophage secretion of IL-12. Clin Immunol Immunopathol. 1997 Aug;84(2):185-93.	
	*	COHEN, Selective anti-gene therapy for cancer: principles and prospects. Tohoku J Exp Med. 1992 Oct;168(2):351-9.	
		COSSUM et al., Disposition of the 14C-labeled phosphorothioate oligonucleotide ISIS 2105 after intravenous administration to rats. J Pharmacol Exp Ther. 1993 Dec;267(3):1181-90.	
	*	COWDERY et al., Bacterial DNA induces NK cells to produce IFN-gamma in vivo and increases the toxicity of lipopolysaccharides. J Immunol. 1996 Jun 15;156(12):4570-5.	
		COWSERT et al., In vitro evaluation of phosphorothioate oligonucleotides targeted to the E2 mRNA of papillomavirus: potential treatment for genital warts. Antimicrob Agents Chemother. 1993 Feb;37(2):171-7.	
	*	GALLICHAN et al., Specific secretory immune responses in the female genital tract following intranasal immunization with a recombinant adenovirus expressing glycoprotein B of herpes simplex virus. Vaccine. 1995 Nov;13(16):1589-95.	
	*	HALPERN et al., Bacterial DNA induces murine interferon-gamma production by stimulation of interleukin-12 and tumor necrosis factor-alpha. Cell Immunol. 1996 Jan 10;167(1):72-8.	
		HIGAKI et al., Mechanisms involved in the inhibition of growth of a human B lymphoma cell line, B104, by anti-MHC class II antibodies. Immunol Cell Biol. 1994 Jun;72(3):205-14.	
		IVERSEN et al., Pharmacokinetics of an antisense phosphorothioate oligodeoxynucleotide against rev from human immunodeficiency virus type 1 in the adult male rat following single injections and continuous infusion. Antisense Res Dev. 1994 Spring;4(1):43-52.	
		JOHNSON et al., Non-specific resistance against microbial infections induced by polyribonucleotide complexes. In: Immunopharmacology of infection diseases: Vaccine adjuvants and modulators of non-specific resistance. 1987: 291-301.	
	*	KATAOKA et al., Immunotherapeutic potential in guinea-pig tumor model of deoxyribonucleic acid from Mycobacterium bovis BCG complexed with poly-L-lysine and carboxymethylcellulose. Jpn J Med Sci Biol. 1990 Oct;43(5):171-82.	
	*	KLINMAN et al., CpG motifs present in bacteria DNA rapidly induce lymphocytes to secrete interleukin 6, interleukin 12, and interferon gamma. Proc Natl Acad Sci U S A. 1996 Apr 2;93(7):2879-83.	
	*	KRIEG et al., Lymphocyte activation mediated by oligodeoxynucleotides or DNA containing novel un-methylated CpG motifs. American College of Rheumatology 58 th National Scientific Meeting. Minneapolis, Minnesota, October 22, 1994. Abstracts. Arthritis Rheum. 1994 Sep;37(9 Suppl).	
	*	KRIEG et al., Phosphorothioate oligodeoxynucleotides: antisense or anti-protein? Antisense Res Dev. 1995 Winter;5(4):241.	
	*	KRIEG et al., Leukocyte stimulation by oligodeoxynucleotides, Applied Antisense Oligonucleotide Technology, 1998; 431-448.	
	*	KRIEG, CpG DNA: a pathogenic factor in systemic lupus erythematosus? J Clin Immunol. 1995 Nov;15(6):284-92.	

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/00/	*	KRIEG et al., The role of CpG dinucleotides in DNA vaccines. Trends Microbiol. 1998 Jan;6(1):23-7.	
	*	KRIEG, An innate immune defense mechanism based on the recognition of CpG motifs in microbial DNA. J Lab Clin Med. 1996 Aug;128(2):128-33.	
	*	KRIEG et al., Chapter 8: Immune Stimulation by Oligonucleotides. in Antisense Research and Application. Crooke, editor. 1998; 243-62.	
		KRIEG et al., A role for endogenous retroviral sequences in the regulation of lymphocyte activation. J Immunol. 1989 Oct 15;143(8):2448-51.	
	*	KRIEG et al., Bacterial DNA or oligonucleotides containing CpG motifs protect mice from lethal L. monocytogenes challenge. 1996 Meeting on Molecular Approaches to the Control of Infectious Diseases. Cold Spring Harbor Laboratory, September 9-13, 1996: 116.	
	*	KRIEG et al., The CpG motif: Implications for clinical immunology. BioDrugs. 1998 Nov 1;10(5):341-6.	
	*	KRIEG et al., Sequence motifs in adenoviral DNA block immune activation by stimulatory CpG motifs. Proc Natl Acad Sci U S A. 1998 Oct 13;95(21):12631-6.	
	*	KRIEG et al., CpG DNA induces sustained IL-12 expression in vivo and resistance to Listeria monocytogenes challenge. J Immunol. 1998 Sep 1;161(5):2428-34.	
		KRIEG et al., Unmethylated CpG DNA protects mice from lethal listeria monocytogenes challenge. Vaccines. 1997; 97:77-9.	
	*	KRIEG et al., Infection. In McGraw Hill Book. 1996: 242-3.	
	*	KRIEG et al., Lymphocyte activation by CpG dinucleotide motifs in prokaryotic DNA. Trends Microbiol. 1996 Feb;4(2):73-6.	
		KURAMOTO et al., Induction of T-cell-mediated immunity against MethA fibrosarcoma by intratumoral injections of a bacillus Calmette-Guerin nucleic acid fraction. Cancer Immunol Immunother. 1992;34(5):283-8.	
	*	KURAMOTO et al., Changes of host cell infiltration into Meth A fibrosarcoma tumor during the course of regression induced by injections of a BCG nucleic acid fraction. Int J Immunopharmacol. 1992 Jul;14(5):773-82.	
	*	KURAMOTO et al., In situ infiltration of natural killer-like cells induced by intradermal injection of the nucleic acid fraction from BCG. Microbiol Immunol. 1989;33(11):929-40.	
		LEDERMAN et al., Polydeoxyguanine motifs in a 12-mer phosphorothioate oligodeoxynucleotide augment binding to the v3 loop of HIV-1 gp120 and potency of HIV-1 inhibition independency of G-tetrad formation. Antisense Nucleic Acid Drug Dev. 1996 Winter;6(4):281-9.	
	*	LETSINGER et al., Cholesteryl-conjugated oligonucleotides: synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture. Proc Natl Acad Sci U S A. 1989 Sep;86(17):6553-6.	
	*	LETSINGER et al., Synthesis and properties of modified oligonucleotides. Nucleic Acids Symp Ser. 1991;(24):75-8.	
		LIU et al., Recombinant interleukin-6 protects mice against experimental bacterial infection. Infect Immun. 1992 Oct;60(10):4402-6.	
↓		LOKE et al., Delivery of c-myc antisense phosphorothioate oligodeoxynucleotides to hematopoietic cells in culture by liposome fusion: specific reduction in c-myc protein expression correlates with inhibition of cell growth and DNA synthesis. Curr Top Microbiol Immunol. 1988;141:282-9.	

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/00/		MALTESE et al., Sequence context of antisense RelA/NF-kappa B phosphorothioates determines specificity. Nucleic Acids Res. 1995 Apr 11;23(7):1146-51.	
/00/		MANCILLA-RAMIREZ et al., [Phosphatidylcholine induces an increase in the production of interleukin-6 and improves survival of rats with neonatal sepsis caused by Klebsiella pneumoniae] Gac Med Mex. 1995 Jan-Feb;131(1):14-22. Spanish.	Y - Abstract
/00/		MATSUKURA et al., Regulation of viral expression of human immunodeficiency virus in vitro by an antisense phosphorothioate oligodeoxynucleotide against rev (art/trs) in chronically infected cells. Proc Natl Acad Sci U S A. 1989 Jun;86(11):4244-8.	
/00/	*	MOJCIK et al., Administration of a phosphorothioate oligonucleotide antisense to murine endogenous retroviral MCF env causes immune effects in vivo in a sequence-specific manner. Clin Immunol Immunopathol. 1993 May;67(2):130-6.	
/00/		MUHLHAUSER et al., VEGF165 expressed by a replication-deficient recombinant adenovirus vector induces angiogenesis in vivo. Circ Res. 1995 Dec;77(6):1077-86.	
/00/		OCHIAI et al., Studies on lymphocyte subsets of regional lymph nodes after endoscopic injection of biological response modifiers in gastric cancer patients. Int J Immunotherapy. 1986;11(4):259-65.	
/00/		PERLAKY et al., Growth inhibition of human tumor cell lines by antisense oligonucleotides designed to inhibit p120 expression. Anticancer Drug Des. 1993 Feb;8(1):3-14.	
00	*	PISETSKY et al., The immunologic properties of DNA. J Immunol. 1996 Jan 15;156(2):421-3.	
/00/		PISETSKY et al., Immunological properties of bacterial DNA. Ann N Y Acad Sci. 1995 Nov 27;772:152-63.	
00		PISETSKY et al., Stimulation of murine lymphocyte proliferation by a phosphorothioate oligonucleotide with antisense activity for herpes simplex virus. Life Sci. 1994;54(2):101-7.	
/00/	*	PISETSKY, Immunologic consequences of nucleic acid therapy. Antisense Res Dev. 1995 Fall;5(3):219-25.	
/00/	*	PISETSKY et al., Stimulation of in vitro proliferation of murine lymphocytes by synthetic oligodeoxynucleotides. Mol Biol Rep. 1993 Oct;18(3):217-21.	
/00/		RATAJCZAK et al., In vivo treatment of human leukemia in a scid mouse model with c-myb antisense oligodeoxynucleotides. Proc Natl Acad Sci U S A. 1992 Dec 15;89(24):11823-7.	
/00/		RAZ et al., Potential role of immunostimulatory DNA sequences (ISS) in genetic immunization and autoimmunity. ACR Poster Session C: Cytokines and Inflammatory Mediators. 1996 Oct 20; Abstract 615.	
/00/		RYNKIEWICZ et al., Marked enhancement of antibody response to anthrax vaccine adsorbed with CPG 7909 in healthy volunteers. 45 th Intersci. Conf. Antimicrob. Agents Chemother. 2005 Sep. 21-24; New Orleans, Louisiana. Meeting Poster.	
/00/		SEDEGAH et al., Interleukin 12 induction of interferon gamma-dependent protection against malaria. Proc Natl Acad Sci U S A. 1994 Oct 25;91(22):10700-2.	
/00/	*	SONEHARA et al., Hexamer palindromic oligonucleotides with 5'-CG-3' motif(s) induce production of interferon. J Interferon Cytokine Res. 1996 Oct;16(10):799-803.	
/00/	*	STEIN et al., Problems in interpretation of data derived from in vitro and in vivo use of antisense oligodeoxynucleotides. Antisense Res Dev. 1994 Summer;4(2):67-9.	
/00/	*	STEIN et al., Non-antisense effects of oligodeoxynucleotides. Antisense Technology. 1997; ch11: 241-64.	
/00/		STEIN et al., Antisense oligonucleotides as therapeutic agents--is the bullet really magical? Science. 1993 Aug 20;261(5124):1004-12.	

EXAMINER:

/Oluwatosin Ogunbiyi/

DATE CONSIDERED:

03/12/2007

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/789,051

ATTY. DOCKET NO.: C1039.70083US06

FILING DATE: February 26, 2004

CONFIRMATION NO.: 8295

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Oluwatosin A. Ogunbiyi

Sheet

9

of

12

100/		TAKATSUKI et al., Interleukin 6 perfusion stimulates reconstitution of the immune and hematopoietic systems after 5-fluorouracil treatment. Cancer Res. 1990 May 15;50(10):2885-90.	
100/		WAAG et al., Injection of inactivated phase I Coxiella burnetii increases non-specific resistance to infection and stimulates lymphokine production in mice. Ann N Y Acad Sci. 1990;590:203-14.	
100/		WEINER et al., Immunostimulatory CpG oligodeoxynucleotide is effective as an adjuvant in inducing production of anti-idiotype antibody and is synergistic with GMCSF. Blood. 1996 Nov 15;88(10):Suppl. 1 pt. 1. Abstract #348.	
100/		WOOLDRIDGE et al., Select unmethylated CpG oligodeoxynucleotide improve antibody dependent cellular cytotoxicity in vitro and in vivo. Proc Am Assoc Cancer Res. 1996 Mar;37(3253):477.	
100/	*	YI et al., Rapid immune activation by CpG motifs in bacterial DNA. Systemic induction of IL-6 transcription through an antioxidant-sensitive pathway. J Immunol. 1996 Dec 15;157(12):5394-402.	
100/	*	YI et al., IFN-gamma promotes IL-6 and IgM secretion in response to CpG motifs in bacterial DNA and oligodeoxynucleotides. J Immunol. 1996 Jan 15;156(2):558-64.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 3 (for judgment based on failure to comply with 35 U.S.C. 135(b)). (Electronically filed, unsigned). June 7, 2004.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 4 (for judgment of no interference in fact). (Electronically filed, unsigned). June 7, 2004.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 5 (for judgment based on lack of enablement). (Electronically filed, unsigned). June 7, 2004.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 6 (for judgment based on lack of adequate written description). (Electronically filed, unsigned). June 7, 2004.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 7 (motion to redefine interference to designate claims as not corresponding to the Count). (Electronically filed, unsigned). June 7, 2004.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 8 (contingent motion to redefine the Count). (Electronically filed, unsigned). June 7, 2004.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 9 (motion for benefit of earlier application). (Electronically filed, unsigned). June 7, 2004.	
	*	Patent Interference No. 105,171. Iowa Preliminary Motion 10 (contingent motion to redefine the interference by adding a continuation application). (Electronically filed, unsigned). July 2, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Opposition 3 (to Iowa Preliminary Motion 3 for judgment under 35 USC 135(b)). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Opposition 4 (to Iowa Preliminary Motion 4 for judgment of no interference in fact). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Opposition 5 (to Iowa Preliminary Motion 5 for judgment that UC's claim is not enabled). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Opposition 6 (to Iowa Preliminary Motion 6 for judgment based on lack of adequate written description). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Opposition 7 (to Iowa Preliminary Motion 7 to redefine the interference). September 9, 2004.	

EXAMINER:

/Oluwatosin Ogunbiyi/

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/789,051

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CONFIRMATION NO.: 8295

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

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/00/	*	Patent Interference No. 105,171. Regents of the University of California Opposition 8 (to Iowa Preliminary Motion 8 to redefine the Count). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Response 9 (to Iowa Contingent Motion 9 for benefit). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Opposition 10 (to Iowa Contingent Motion 10 to redefine the interference). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Opposition 11 (to Iowa Contingent Motion 11 to suppress). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 3 (in support of Iowa Preliminary Motion 3 for judgment under 35 U.S.C. §135(b)) (Electronically filed, unsigned). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 4 (in support of Iowa Preliminary Motion for judgment of no interference in fact) (Electronically filed, unsigned). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 5 (in support of Iowa Preliminary Motion 5 for judgment that UC's claim 205 is not enabled) (Electronically filed, unsigned). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 6 (in support of Iowa Preliminary Motion 6 for judgment based on lack of adequate written description) (Electronically filed, unsigned). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 7 (in support of Iowa Preliminary Motion 7 to redefine the interference) (Electronically filed, unsigned). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 8 (in support of Iowa Preliminary Motion 8 to redefine the count) (Electronically filed, unsigned). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 10 (in support of Iowa Preliminary Motion 10 to redefine the interference) (Electronically filed, unsigned). October 15, 2004.	
	*	Patent Interference No. 105,171. Iowa Reply 11 (in support of Iowa Miscellaneous Motion to suppress). (Electronically filed, unsigned). October 18, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Preliminary Statement. June 7, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 1 (to designate additional claims of Iowa patent as corresponding to the Count). June 7, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 2 (for judgment based on lack of written description support and introducing new matter). June 7, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 3 (for judgment based on anticipation). June 7, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 4 (for judgment based on obviousness). June 7, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 5 (for judgment based on anticipation). June 7, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 6 (for judgment based on inequitable conduct). June 7, 2004.	

EXAMINER:

/Oluwatosin Ogunbiyi/

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICATION NO.: 10/789,051

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APPLICANT: Krieg et al.

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of

12

100/	*	Patent Interference No. 105,171. Regents of the University of California Contingent Preliminary Motion 7 (for benefit of an earlier application under 37 CFR 1.633(j)). July 2, 2004.	
100/	*	Patent Interference No. 105,171. Regents of the University of California Contingent Preliminary Motion 8 (to add additional claims under 37 CFR 1.633(c)(2) and (i)). July 2, 2004.	
100/	*	Amended Claims for Application Number 09/265,191, filed March 10, 1999.	
100/	*	Patent Interference No. 105,171. Iowa Opposition 1 (opposition to motion to designate additional claims as corresponding to the Count) (Electronically filed, unsigned). September 9, 2004.	
100/	*	Patent Interference No. 105,171. Iowa Opposition 2 (opposition to motion for judgment based on lack of written description support and introducing new matter) (Electronically filed, unsigned). September 9, 2004.	
100/	*	Patent Interference No. 105,171. Iowa Opposition 3 (opposition to motion for judgment based on anticipation) (Electronically filed, unsigned). September 9, 2004.	
	*	Patent Interference No. 105,171. Iowa Opposition 4 (opposition to motion for judgment based on obviousness) (Electronically filed, unsigned). September 9, 2004.	
	*	Patent Interference No. 105,171. Iowa Opposition 5 (opposition to motion for judgment based on anticipation) (Electronically filed, unsigned). September 9, 2004.	
	*	Patent Interference No. 105,171. Iowa Opposition 6 (opposition to motion for judgment based on inequitable conduct) (Electronically filed, unsigned). September 9, 2004.	
	*	Patent Interference No. 105,171. Iowa Opposition 7 (opposition to motion for benefit of an earlier application under 7 CFR 1.633(j)) (Electronically filed, unsigned). September 9, 2004.	
	*	Patent Interference No. 105,171. Iowa Opposition 8 (opposition to motion to add additional claims under 37 CFR 1.633 (2) and (i)) (Electronically filed, unsigned). September 9, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 1 (to Iowa's opposition to UC's motion to designate Iowa claims as corresponding to the Count). October 15, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 2 (to Iowa's opposition to UC Preliminary Motion 2 for Judgment). October 15, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 3 (to Iowa's Opposition to UC Preliminary Motion 3 for Judgment). October 15, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 4 (to Iowa's Opposition to UC Preliminary Motion 4 for Judgment). October 15, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 5 (to Iowa's Opposition to UC Preliminary Motion 5 for Judgment). October 15, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 6 (to Iowa's opposition to UC Preliminary Motion 6 for judgment). October 15, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 7 (to Iowa's Opposition to UC Preliminary Motion 7 for Benefit). October 15, 2004.	
	*	Patent Interference No. 105,171. Regents of the University of California Reply 8 (to Iowa's Opposition to UC Preliminary Motion 8 to add additional claims). October 15, 2004.	
	*	Patent Interference No. 105,171. Decision on Motion under 37 CFR §41.125. March 10, 2005.	
	*	Patent Interference No. 105,171. Judgment and Order. March 10, 2005.	
	*	Patent Interference No. 105,171. Regents of the University of California. Brief of Appellant. July 5, 2005.	

EXAMINER:

/Oluwatosin Ogunbiyi/

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/789,051

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FILING DATE: February 26, 2004

CONFIRMATION NO.: 8295

APPLICANT: Krieg et al.

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EXAMINER: Oluwatosin A. Ogunbiyi

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12

00	*	Patent Interference No. 105,171. University of Iowa and Coley Pharmaceutical Group, Inc. Brief of Appellees. August 17, 2005.	
/00/	*	Patent Interference No. 105,171. Regents of the University of California. Reply Brief of Appellant. September 6, 2005.	
/00/	*	Patent Interference No. 105,171. Regents of the University of California. Decision of CAFC. July 17, 2006.	

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 10/690,495, filed October 21, 2003, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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DATE CONSIDERED:

03/12/2007

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

FILING DATE: Herewith

CONFIRMATION NO.:

APPLICANT: Arthur M. Krieg et al.

GROUP ART UNIT: Not yet assigned

EXAMINER: Not yet assigned

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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/00/	*	2,215,233		Ruskin	09-17-1940
	*	3,911,117		Ender	10-07-1975
	*	3,914,450		Robbins et al.	10-21-1975
	*	4,544,559		Gil et al.	10-01-1985
	*	4,741,914		Kimizuka et al.	05-03-1988
	*	4,758,553		Ogoshi	07-19-1988
	*	4,806,376		Saeki et al.	02-21-1989
	*	4,963,387		Nakagawa et al.	10-16-1990
	*	4,956,296		Fahnestock	09-11-1990
	*	4,994,442		Gil et al.	02-19-1991
	*	5,066,500		Gil et al.	11-19-1991
	*	5,231,085		Alexander et al.	07-27-1993
	*	5,234,811		Beutler et al.	08-10-1993
	*	5,268,365		Rudolph et al.	12-07-1993
	*	5,288,509		Potman et al.	02-22-1994
	*	5,488,039		Masor et al.	01-30-1996
	*	5,492,899		Masor et al.	02-20-1996
	*	5,585,479		Hoke et al.	12-17-1996
	*	5,591,721		Agrawal et al.	01-07-1997
	*	5,602,109		Masor et al.	02-11-1997
	*	5,612,060		Alexander	03-18-1997
	*	5,650,156		Grinstaff et al.	07-22-1997
	*	5,663,153		Hutcherson et al.	09-02-1997
	*	5,679,647		Carson et al.	10-21-1997
	*	5,684,147		Agrawal et al.	11-04-1997
	*	5,700,590		Masor et al.	12-23-19*97
	*	5,712,256		Kulkarni et al.	01-27-1998
	*	5,723,335		Hutcherson et al.	03-03-1998
	*	5,756,353		Debs	05-26-1998
	*	5,786,189		Locht et al.	07-28-1998
	*	5,840,705		Tsukuda	11-24-1998
	*	5,895,652		Giampapa	04-20-1999
	*	5,922,766		Acosta et al.	07-13-1999
	*	5,929,226		Padmapriya	07-27-1999
	*	5,976,580		Ivey et al.	11-02-1999
/00/	*	5,980,958		Naylor et al.	11-09-1999

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APPLICATION NO.:

ATTY. DOCKET NO.: C1039.70083US06

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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APPLICANT: Arthur M. Krieg et al.

GROUP ART UNIT: Not yet assigned

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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/00/	*	6,004,534		Langer et al.	12-21-1999
	*	6,022,853		Kuberasampath et al.	02-08-2000
	*	6,031,086		Switzer	02-29-2000
	*	6,191,257		Ledley et al.	02-20-2001
	*	6,194,388	B1	Krieg et al.	02-27-2001
	*	6,207,646	B1	Krieg et al.	03-27-2001
	*	6,214,806	B1	Krieg et al.	04-10-2001
	*	6,218,371	B1	Krieg et al.	04-17-2001
	*	6,225,292	B1	Raz et al.	05-01-2001
	*	6,239,116	B1	Krieg et al.	05-29-2001
	*	6,248,720		Mathiowitz et al.	06-19-2001
	*	6,339,068	B1	Krieg et al.	01-15-2002
	*	6,406,705	B1	Davis et al.	06-18-2002
	*	6,429,199	B1	Krieg et al.	08-06-2002
	*	6,498,147		Nerenberg et al.	12-24-2002
	*	6,498,148	B1	Raz	12-24-2002
	*	6,503,533		Korba	01-07-2003
	*	6,514,948	B1	Raz, et atl	02/04/2003
	*	6,534,062	B2	Krieg, et al.	03/18/2003
	*	6,552,006	B2	Raz et al.	04/22/2003
	*	6,562,798	B1	Schwartz	05/13/2003
	*	6,589,940	B1	Raz et al.	07/08/2003
	*	6,610,661	B1	Carson et al.	08/26/2003
	*	6,653,292	B1	Krieg et al.	11/25/2003
	*	US 2001/0046967	A1	Van Nest	11/29/2001
	*	US 2002/0028784	A1	Van Nest	03/07/2002
	*	US 2002/0055477	A1	Nest	05/09/2002
	*	US 2002/0098199	A1	Nest et al.	07/25/2002
	*	US 2002/0107212	A1	Van Nest et al.	08/08/2002
	*	US 2002/0142978	A1	Van Nest et al.	10/03/2002
	*	US 2002/0156033	A1	Raz et al.	10/24/2002
	*	US 2003/0022852	A1	Van Nest et al.	01/30/2003
	*	US 2003/0049266	A1	Bratzler et al.	03/13/2003
	*	US 2003/0050263	A1	Fearon et al.	03/13/2003
V /00/	*	US 2003/0059773	A1	Van Nest et al.	03/27/2003

APPLICATION NO.:

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APPLICANT: Arthur M. Krieg et al.

GROUP ART UNIT: Not yet assigned

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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
100/	*	US 2003/0078223	A1	Krieg et al.	04/24/2003
	*	US 2003/0092663	A1	Raz et al.	05/15/2003
	*	US 2003/0109469	A1	Raz	06/12/2003
	*	US 2003/0119773	A1	Carson et al.	06/26/2003
	*	US 2003/0129251	A1	Raz et al.	07/10/2003
	*	US 2003/0133988	A1	Van Nest et al.	07/17/2003
	*	US 2003/0143213	A1	Fearon et al.	07/31/2003
	*	US 2003/0147870	A1	Raz et al.	08/07/2003
	*	US 2003/0175731	A1	Raz et al.	09/18/2003
	*	US 2003/0186921	A1	Rearon et al	10/02/2003
	*	US 2003/0199466	A1	Fearon et al.	10-23-2003
	*	US 2003/0212028	A1	Raz et al.	11-13-2003
	*	US 2003/0216340	A1	Van Nest et al.	11-20-2003

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
100/	**	JP	56-008307			01-28-1981	
	**	JP	60-120962			06-28-1985	
	**	EPO	0 178 267 A2			04-16-1986	
	**	JP	62-025960			02-03-1987	
	**	JP	62-148428			07-02-1987	
	**	JP	224259			10-02-1987	
	**	GB	2 216 416 A			11-10-1989	
	**	PCT	US91/05815			08-14-1991	
	**	PCT	US91/01327			09-05-1991	
	**	EP	0 468 520 A3			01-29-1992	
	**	PCT	0 216 133 B1			07-28-1993	
	**	FR	2692897			12-31-1993	
	**	PCT	US94/02471			03-07-1994	
	**	EP	0 302 758 B1			03-16-1994	
	**	PCT	WO95/26204			10-1995	
	**	PCT	WO96/02555			02-01-1996	
	**	JP	8051953			02-27-1996	
	**	JP	8187059			07-23-1996	
	**	JP	9019276			01-21-1997	

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.:		ATTY. DOCKET NO.: C1039.70083US06			
				FILING DATE: Herewith		CONFIRMATION NO.:			
				APPLICANT: Arthur M. Krieg et al.					
				GROUP ART UNIT: Not yet assigned		EXAMINER: Not yet assigned			
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FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Offic e/ Cou ntry	Number	Kind Code			
/00/	**	CN	1141740A			02-05-1997	
	**	PCT	WO97/42975			11-1997	
	**	CN	1169434			01-07-1998	
	**	JP	10108655			04-28-1998	
	**	PCT	WO98/49348			11-05-1998	
	**	CN	1211443			03-24-1999	
	**	PCT	WO99/37151			07-29-1999	
	**	WO	98/16247	A1	Regents of the University of CA	04-23-1998	
	**	WO	99/11275	A2	Regents of the University of CA	03-11-1999	
	**	WO	99/62923	A2	Dynavax Tech. Corp	12/09/1999	
	**	WO	00/20039	A1	Regents of the University of CA	04/13/2000	
	**	WO	00/21556	A1	Dynavax Tech Corp.	04/20/2000	
	**	WO	00/62787	A1	Regents of the University of CA	10/26/2000	
	**	WO	01/02007	A1	The Regents of the Univ. of California	01-11-2001	
	**	WO	01/12804	A2	Hybridon, Inc.	02-22-2001	
	**	WO	01/12223	A2	Dynavax Tech. Corp.	02-22-2001	
	**	WO	01/55341	A2	The Regents of the Univ. of California	08-02-2001	
	**	WO	01/68117	A2	Dynavax Tech. Corp.	09-20-2001	
	**	WO	01/68116	A2	Dynavax Tech. Corp.	09-20-2001	
	**	WO	01/68078	A2	Dynavax Tech. Corp.	09-20-2001	
	**	WO	01/68077	A2	Dynavax Tech. Corp.	09-20-2001	
	**	WO	01/68103	A2	Dynavax Tech. Corp.	09-20-2001	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
/00/	**	Anfossi et al. (P.N.A.S., 86, 9, 3379-83, 89, HCAPLUS, AN 1989:475562)		
/00/	**	Agrawal, et al., "Absorption, Tissue Distribution and <i>In Vivo</i> Stability in Rats of a Hybrid Antisense Oligonucleotide Following Oral Administration" <i>Biochemical Pharmacology</i> (1995) 50:4:571-576		
/00/	**	Agrawal, S, "Antisense Oligonucleotides: Toward Clinical Trials", <i>Tibtech</i> (1996) 14:376-387		
/00/	**	Agrawal, S. and Zhang, R., "Pharmacokinetics and Bioavailability of Antisense Oligonucleotides Following Oral and Colorectal Administration in Experimental Animals" <i>Handb. Exp. Pharmacol.</i> (1998) Vol. 131 Antisense Research and Application pp. 525-543		
/00/	**	Agrawal, S. and Zhang, R., "Pharmacokinetics of Oligonucleotides" <i>Ciba Found Symp.</i> (1997) 209:60-78		

FORM PTO-1449/A and B (Modified)				APPLICATION NO.:		ATTY. DOCKET NO.: C1039.70083US06			
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/00/	**	Azad, Raana F. et al., "Antiviral Activity of a Phosphorothioate Oligonucleotide Complementary to RNA of the Human Cytomegalovirus Major Immediate-Early Region," <i>Antimicrobial Agents and Chemotherapy</i> , (1993) 37: 1945-1954.	
	**	Azuma, I., "Biochemical and Immunological Studies on Cellular Components of Tubercle Bacilli," <i>Kekkaku</i> (1992) 67(9):45-55.	
	**	Blaxter et al., "Genes expressed in <i>Brugia malayi</i> infective third stage larvae," <i>Molecular and Biochemical Parasitology</i> , (1996) 77:77-93.	
	***	Bodey et al. "Failure of cancer vaccines: The significant limitation of this approach to immunotherapy" pp. 2665-2676 2000	
	**	Boiarkina, et al., "Dietary supplementa from ground fish meat with DNA for treatment and prophylaxis", <i>Vopr Pitan</i> , (1998); (1):29-31. <u>Abstract</u>	
	**	Branda et al., "Immune Stimulation by an Antisense Oligomer Complementary to the rev gene of HIV-1," <i>Biochemical Pharmacology</i> , (1993) 45(10):2037-2043.	
	**	Chace, et al., "Regulation of Differentiation in CD5+ and Conventional B Cells", <i>Clin. Immunol. and Immunopath</i> , 68(3):327-332 (1993)	
	**	Chu, et al., "CpG Oligodeoxynucleotides Act as Adjuvants That Switch on T Helper 1 (Th1) Immunity", <i>J. Exp. Med.</i> , (1997) 186(10): 1623-1631	
	**	Crystal, "Transfer of Genes to Humans: Early Lessons and Obstacles to Success," <i>Science</i> , (1995) 270:404-410.	
	***	Curtis, Biology, Second Edition, pages 638-641	
	**	Davis, et al., "CpG DNA Is A Potent Enhancer Of Specific Immunity In Mice Immunized With Recombinant Hepatitis B Surface Antigen", <i>J. Immunol</i> , (1998) 160:870-876	
	**	Doerfler, et al., "On the Insertion of Foreign DNA into Mammalian Genomes: Mechanism and Consequences" <i>Gene</i> 157:241-245 (1995)	
	***	Etchart et al. "Class I-restricted CTL induction by mucosal immunization with naked DNA encoding measles virus haemagglutinin" pp. 15775761 vol 72, 1998	
	**	Etlinger, "Carrier Sequence Selection -- One Key to Successful Vaccines," <i>Immunology Today</i> , (1992) 13(2):52-55	
	**	Fanslow, et al., "Effect of nucleotide restriction and supplementation on resistance to experimental murine candidiasis", <i>J. Parenter Enteral Nutr.</i> , (1998) 12(1):49-52 <u>Abstract</u>	
	**	Fox, R.I., "Mechanism of Action of Hydroxychloroquine as an antirheumatic Drug," <i>Chemical Abstracts</i> (1994) 120:15, Abstract No. 182630	
	***	Gilboa Immunotherapy of cancer with genetically modified tumor vaccines pp. 101-107 1996	
	**	Hedley et al., "Microspheres containing plasmid-encoded antigens elicit cytotoxic T-cell responses" pp. 365-368, vol. 4 no. 3 1998	
	***	Hohlweg et al., "On the fate of plant other foreign genes upon th uptake in food or after intramuscular injection in mice" 2001, <i>Mol. Genet Genomics</i> , Vol. 265, pages 225-233	
	***	Jones et al. "Ploly(DdL-lactide-co-glycolide)-encapsulated plasmid DNA elicits sytemic and mucosal antibody responses to encoded protein after oral administration" pp 814-817, vol. 15, no. 8 1997	
	**	Kataoka T, et al., "Antitumor Activity of Synthetic Oligonucleotides with Sequences from cDNA Encoding Proteins of <i>Mycobacterium bovis</i> BCG," <i>Jpn. J. Cancer Res</i> (1992) 83:244-247.	
V	**	Kimura Y, et al., "Binding of Oligoguanylate to Scavenger Receptors Is Required for Oligonucleotides to Augment NK Cell Activity and Induce IFN," <i>J. Biochem</i> (1994) 116(5):991-994	

FORM PTO-1449/A and B (Modified)				APPLICATION NO.:		ATTY. DOCKET NO.: C1039.70083US06			
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100/	**	Krieg, et al., "CpG Motifs in Bacterial DNA Trigger Direct B-cell Activation", <i>Nature</i> , 374:546-549 (1995)	
	**	Krieg, et al., "Brief Communication: Oligodeoxynucleotide Modifications Determine the Magnitude of B Cell Stimulation by CpG Motifs", <i>Antisense & Nucleic Acid Drug Delivery Development</i> , 6:133-139 (1996)	
	**	Kuchan, et al., "Nucleotides in Infant Nutrition: Effects on Immune Function" <i>Pediatric Nutrition. Pediatr. Adolesc. Med. Basel. Karger</i> (1998) 8:80-94.	
	**	Kulkarni, et al., "Effect of dietary nucleotides on responses to bacterial infections", <i>J. Parenter Enteral. Nutr.</i> , (1986) 10(2):169-71 Abstract	
	**	Kuramoto et al., "Oligonucleotide Sequences Required for Natural Killer Cell Activation," <i>Jpn. J. Cancer Res.</i> , (1992) 83:1128-1131.	
	***	Lehninger, Biochemistry, Second Edition	
	**	Mastrangelo et al., "Gene Therapy for Human Cancer: An Essay for Clinicians," <i>Seminars in Oncology</i> (1996) 23(1):4-21.	
	***	McCluskie et al. "Novel strategies using DNA for the induction of mucosal immunity" pp. 303-325 1999	
	**	Messina et al., "The Influence of DNA Structure on the <i>in vitro</i> Stimulation of Murine Lymphocytes by Natural and Synthetic Polynucleotide Antigens," <i>Cellular Immunology</i> (1993) 147:148-157.	
	**	Messina et al., "Stimulation of <i>in vitro</i> Murine Lymphocyte Proliferation by Bacterial DNA," <i>The Journal of Immunology</i> (1991) 147(6):1759-1764.	
	**	Mottram, et al., "a Novel CDC2-Related Protein Kinase From Leishania Mexicana.LmmCRK1. Is Post-Translationally Regulated During the Life Cycle", <i>J. Biol. Chem.</i> , 268(28):21044-21052 (1993)	
	***	Perspective pp. 155-156 1999	
	***	Ray et al. "Oral pretreatment of mice with immunostimulatory CpG DNA induces reduced susceptibility to listeria monocytogenes." Vol 15, No. 5, pp. A1007 2001	
	**	Ren jun et al. (Zhonghua Zhong Zazhi, 1994, 16, 4, 247-50, HCAPLUS, AN 1995: 198874)	
	**	Sato et al., "Immunostimulatory DNA Sequences Necessary for Effective Intradermal Gene Immunization," <i>Science</i> (1996) 273:352-354.	
	**	Schnell et al., "Identification and Characterization of a Saccharomyces Cerevisiae Gene (PAR1) Conferring Resistance to Iron Chelators," <i>Eur. J. Biochem.</i> (1991) 200:487-493.	
	**	Shubbert, et al., "Ingested Foreign (phage M13) DNA Survives Transiently in the Gastrointestinal Tract and Enters the Bloodstream of Mice" <i>Mol. Gen. Genet.</i> (1994) 242:495-504	
	**	Stull et al., "Antigene, Ribozyme and Aptamer Nucleic Acid Drugs: Progress and Prospects," <i>Pharmaceutical Research</i> , (1995) 12(4):465-483.	
	**	Tanaka T. et al., "An Antisense Oligonucleotide Complementary to a Sequence in IG2b Germline Transcripts, Stimulates B Cell DNA Synthesis, and Inhibits Immunoglobulin Secretion, <i>J. Exp. Med.</i> , (1992) 175:597-607.	
↓	**	Tokunaga T. et al., "Synthetic Oligonucleotides with Particular Base Sequences from the cDNA Encoding Proteins of <i>Mycobacterium bovis</i> BCG Induce Interferons and Activate Natural Killer Cells," <i>Microbiol. Immunol.</i> (1992) 36(1):55-66.	

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100/	**	Tokunaga, "A synthetic Single-stranded DNA, Poly(dG,dC), Induces Interferon-alpha/beta and - gamma, Augments Natural Killer Activity, and Suppresses Tumor Growth," <i>Jpn. J. Cancer Res.</i> (1988) 79(6):682-686.	
	***	Tortora et al. "Oral antisense that targets protein kinase a cooperates with taxol and inhibits tumor growth, angiogenesis, and growth factor production1" Vol.6, pp. 2506-2512 2000	
	**	Wallace et al., "Oligonucleotide Probes for the Screening of Recombinant DNA Libraries,," <i>Methods in Enzymology</i> , (1987) 152:432-442.	
	**	Whalen R., "DNA Vaccines for Emerging Infectious Disease: What If?," <i>Emerging Infectious Disease</i> , (1996) 2(3):168-175.	
	**	Wu G.Y. et al., "Receptor-mediated Gene Delivery and Expression <i>in vivo</i> ," <i>J. Biological Chemistry</i> , (1988) 263:14621-14624.	
	**	Yamamoto S. et al., "DNA from Bacteria, but not from Vertebrates, Induces Interferons, Activates Natural Killer Cells and Inhibits Tumor Growth," <i>Microbiol. Immunol.</i> (1992) 36(9):983-997.	
	**	Yamamoto S. et al., "Mode of Action of Oligonucleotide Fraction Extracted from <i>Mycobacterium bovis</i> BCG," <i>Kekkaku</i> (1994) 69(9):29-32.	
	**	Yamamoto S. et al., "Unique Palindromic Sequences in Synthetic Oligonucleotides Are Required to Induce IFN [correction of INF] and Augment IFN-mediated [correction of INF] Natural Killer Activity," <i>J. Immunol.</i> (1992) 148(12):4072-4076.	
	**	Yamamoto T. et al., "Ability of Oligonucleotides with Certain Palindromes to Induce Interferon Production and Augment Natural Killer Cell Activity is Associated with their Base Length," <i>Antisense Res. And Devel.</i> (1994) 4:119-123.	
	**	Yamamoto T. et al., "Lipofection of Synthetic Oligodeoxyribonucleotide having a Palindromic Sequence of AACGTT to Murine Splenocytes Enhances Interferon Production and Natural Killer Activity," <i>Microbiol. Immunol.</i> (1994) 38(10):831-836.	
	**	Yamamoto T. et al., "Synthetic Oligonucleotides with Certain Palindromes Stimulate Interferon Production of Human Peripheral Blood Lymphocytes <i>in vitro</i> ," <i>Jpn. J. Cancer Res.</i> (1994) 85:775- 779.	
	**	Yew, et al., "Contribution of Plasmid DNA to Inflammation in the Lung After Administration of Cationic Lipid: pDNA Complexes" <i>Hum Gene Ther.</i> (1999) 20:10(2):223-234 ABSTRACT	
↓	***	Yew et al. "Reduced Inflammatory response to plasmid DNA vectors by elimination and inhibition of immunostimulatory CpG motifs" pp. 255-262 vol. 1, No. 3 2000	

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